

Project Summary and Justification

Department Lincoln Fire and Rescue

Division _____

Project 8 Replacement of Two Aerials

Our fleet of 5 aerial ladders consists of 2 units purchased in 1990 and 3 purchased in 1996. The 1990 models should be replaced when they are 15 years old.

Project 9 Station 11 Relocation

For many years we have provided Fire, EMS, and Crash Fire Rescue services from Fire Station 11 in the Airpark area. We had an inter-local agreement with the Airport Authority and received revenue to provide this service for the aircraft portion. This arrangement has changed, as we no longer provide the Aircraft protection. This element is provided by the Federal Government; however, we still operate out of the Airport Authority property and still call it Fire Station 11. We currently have no agreement with the Airport Authority, we pay no rent and we receive no funds. We need to consider placing a station outside of the flight line to provide our services. Station 11 relocation from Airport to NW 48th & W. Seward.

Project 10 Breathing Air Refilling Cascade System

We would like to install a breathing Air Refilling Cascade system at two more locations so apparatus can replenish their breathing air supply for self contained breathing apparatus. Adding these locations will reduce the “down-time” and travel distance for units to return to a ready state in less time than the current system allows.

Project 11 Water Tankers

The Department is currently providing fire protection response to areas that have been annexed that **DO NOT** have city water mains and hydrants in place. Pumpers carry 500 gallons of water on each unit. This is an adequate quantity of water for a car or trash fire, but is not adequate for a residential fire. We are dependant upon tanker water provided from Southeast Rural Fire District. There is no current plan in the public works division to install water mains and hydrants in these areas since they are existing acreage subdivisions. The most cost effective method to assure water is available for fire protection is the purchase of water tankers. These tankers would be assigned to Station 12 for the South and East areas of the City, and Station 15 for the North and West areas.

Project 12 Remodel Station 12

The size of fire pumpers today is significantly larger than when Fire Station 12 was constructed in 1975. A larger apparatus bay at Station 12 is needed to accommodate the increase in size of newer apparatus.

Project 13 Emergency Vehicle Lifting System

Currently the maintenance division cannot lift emergency vehicles to perform routine maintenance, preventative maintenance, and emergency repair of vehicles in the fire fleet. Mechanics must work on the vehicles from the floor or by lifting a portion of the vehicle with a floor jack. In order to become more efficient and able to complete these tasks safely, this equipment is needed.

Project 14 Replace Live Fire Burn Training Structure

Project Summary and Justification

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Division _____

Currently the Lincoln Fire and Rescue Department's Maintenance and Training facility is located at 300 South Street. Our class rooms today are refurbished railroad cabooses limited in space and amenities. We desire to design and build a campus to accommodate our maintenance division as well as our training center. At this location we train all our emergency service personnel as well as other agencies throughout the city and state in many different aspects.

The live fire training tower and smoke house have considerable structural damage which is a direct result from the extreme heat conditions present with live fires and the rapid cooling effects during fire extinguishment training using hose streams. These structures were built in 1961. Live fire training in a safe controlled environment is a vital component of firefighter training to allow for realistic training for all firefighters and to assure fire ground confidence for actual operating. The proposed burn trainer is specifically engineered for cost effective replacement of minor components of the structure when this same fire extinguishment training damage occurs. The design allows for a cost effective method to replace sub assemblies of the building.

Project 15 Traffic Preemption Equipment

Approximately 120 intersections are currently equipped with this equipment to assist emergency fire and rescue vehicles to travel more safely when responding to incidents. Every emergency vehicle is equipped with a device that emits a flashing light, much like a strobe light. Select intersections have sensors mounted on the traffic signal head that receive the flashing light from the approaching emergency vehicle. Once the sensor recognizes the emergency vehicle, the traffic signal head will change to green from what ever color is displaying to traffic. This change is done so that opposing traffic to the direction of emergency travel will receive a red light, thus allowing the emergency vehicle to pass safely. The purpose of this system is to protect motorists during emergency vehicle response through effective vehicle traffic management. In addition, risk to emergency responders is reduced from other motorist while the emergency vehicle is responding. This system also assists emergency vehicles to get to emergency scenes more quickly.

As the city grows in population and traffic volume, more intersections should be added to those already equipped.

Project 16 Station 2 Drive Thru Modification

With increased traffic volumes on North 33rd street, Fire Station 2 could be modified by adding a west overhead door to the apparatus area. This would eliminate the need for stopping on the public street and backing emergency units into the building, which is the current practice. Drive thru apparatus garages allow for much safer traffic interface when emergency vehicles return to quarters, and this building could accommodate this type of change.

Project 17 Ambulance Vehicles Replacement Chassis

The current fleet of 11 ambulance vehicles was constructed so that the vehicle chassis could be replaced, allowing the reuse of the patient compartment portion of the vehicle. Vehicles in the fleet are rotated to

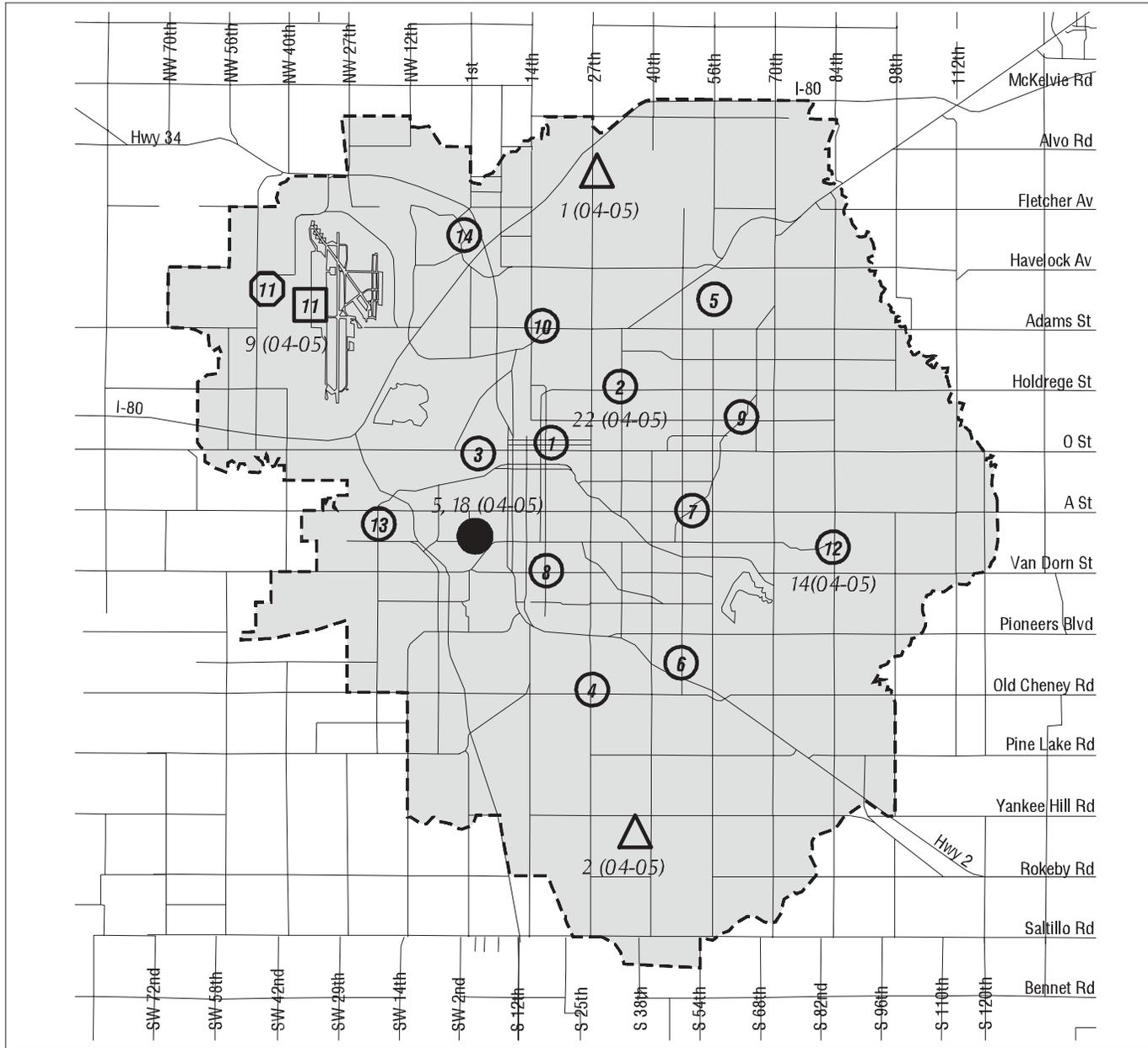
Project Summary and JustificationDepartment Lincoln Fire and Rescue

Division _____

balance mileage so that there is equal use in the fleet. This will result in all 11 vehicles due for replacement chassis at approximately the same interval.

Lincoln CIP 2003 - 2009

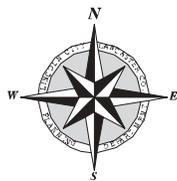
Fire & Rescue



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Lincoln's Future Service Limit Shown as Gray

Map prepared by
City - Co. Planning Dept
GIS Section



○ Exist Station (with Station Number)

△ Proposed New Station (Exact Location May Vary)

□ Proposed for Relocation

◻ Relocated Station

● Educational, Training,
Fleet Service Campus

2 (04-05) Project Number & Year

(Capital improvements often take many years to complete. The year shown on this map reflects the start up year or year of greatest activity. Consult the detailed project lists for further information on project scheduling and likely completion.)

List of Projects *Department: Lincoln Fire & Rescue*

Project Number	Project Title
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1	Station 15
2	Station 16
3*	Automatic Vehicle Locators
4*	Handheld and Mobile Radios
5	Educational, Training, and Fleet Service Campus
6*	Station Modifications and Repairs
7*	Equipment for Heavy Rescue Unit
8*	Replacement of Two Aerials
9	Station 11 Relocation
10*	Breathing Air Refilling Cascade System
11*	Water Tankers
12	Remodel Station 12
13*	Emergency Vehicle Lifting System
14	Replace Live Fire Burn Training Structure
15*	Traffic Preemption Equipment
16	Station 2 Drive Through Modification
17*	Ambulance Vehicles Replacement Chassis

* Indicates project is **NOT** shown on the map.

2003 - 2009 CAPITAL IMPROVEMENT PROGRAM

DIVISION:

(1)	(2)	(3)	5% Inflation per year (4)													
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)													
			2003-2004	FS	2004-2005	FS	2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS		
1	Build & Equip New Fire Station #15 at approximately 7000 No. 27th	A			2,113.6	GO										
2	Build & Equip New Fire Station #16 at approximately 38th & Yankee Hill Road	A			2,178.7	GO										
3	Automatic Vehicle Locators	B			277.8	OF										
4	Handheld and Mobil Radios - 165 each	A			684.1	OF										
5	Educational, Training, and Fleet Service Campus	A			1,001.4	GO										
6	Station Modification and Repairs	B			1,742.2	GO										
7	Heavy Rescue Unit and Equipment	B			364.7	GO										
8	Replacement of Two Aerial Pumpers - T8, T21	B			1,157.7	GO										
9	Station 11 Relocation	C			790.1	GO										
10	Breathing Air Refilling Cascade System - Two	C			109.4	GO										
11	Water Tankers - Two	C			143.4	GO										
12*	Remodel station 12	A			570.0	GO										
13*	Emergency Vehicle Lifting System	B			52.8	GR										
14*	Replace Live Fire Burn Training Structure	B			148.0	GO										
15*	Traffic Pre-Emption Equipment	B			168.0	GO										

FORM B

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)
							COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						
							PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)	
2,113.6	None	None		2,113.6	ICWP	1	18.0	49.0	386.0	704.6	956.0		1
2,178.7	None	None		2,178.7	ICWP	1	20.0	56.0	191.0	804.7	1,107.0		2
277.8	None	None		277.8	GCP	0					277.8		3
684.1	None	None		684.1	GCP	2					684.1		4
1,001.4	None	None		1,001.4	GCP	1				1,001.4			5
1,742.2	None	None		1,742.2	GCP	2				1,742.2			6
364.7	None	None		364.7	GCP	0					364.7		7
1,157.7	None	None		1,157.7	GCP	0					1,157.7		8
790.1	None	None		790.1	ICWP	1		19.0	51	662.1	58.0		9
109.4	None	None		109.4	GCP	2					109.4		10
143.4	None	None		143.4	GCP	1					143.4		11
570.0	None	52.0	01-02 GR	622.0	GCP	1	18.0	10.0	26.0	568.0			12*
52.8	None	None		52.8	GCP	1					52.8		13*
148.0	None	None		148.0	GCP	1				148.0			14*
168.0	None	None		168.0	GCP	1					168.0		15*

2003 - 2009 CAPITAL IMPROVEMENT PROGRAM

DIVISION:

(1)	(2)	(3)	5% Inflation per year (4)														
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)														
			2003-2004	FS	2004-2005	FS	2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS			
16*	Station 2 Drive Through Bays	B			60.0	GO											
17*	Ambulance Vehicles	B								550.0	UF						
FUNDING SOURCE BREAKDOWN:																	
	OF (Other Financing)		0.0		961.9			0.0		0.0			0.0				0.0
	GO (G.O. Bonds)		0.0		10,600.0			0.0		0.0			0.0				0.0
	GR (General Revenue)		0.0		52.8			0.0		0.0			0.0				0.0
	UF (User Fees)		0.0		0.0			0.0		550.0			0.0				0.0
			=====:		=====:			=====:		=====:			=====:				=====:
	DEPARTMENT TOTALS:		0.0		11,614.7			0.0		550.0			0.0				0.0

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2008-2009 (000's)	PRIOR APPROPRIATIONS (000's) YEAR FS		TOTAL CAP COSTS (000's) (5)+(6)+(7)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.
							PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)	
60.0	None	None		60.0	GCP	1				60.0			16*
550.0	None	None		550.0	GCP	0					550.0		17*
961.9													
10,600.0													
52.8													
550.0													
=====													
12,164.7													

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